

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/50, 998A (09/548,998)

RF Processing Date: 9/24/01 #8

Edited by: M. Spurr

Verified by: _____ (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: **ENTERED**
see page 5
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95

#8

OIKE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/548,998A

DATE: 09/24/2001
TIME: 16:35:51

Input Set : A:\BC1002 US NA Revised Seq Listing.txt
Output Set: N:\CRF3\09242001\I548998A.raw

5 <110> APPLICANT: Ebersole, Richard C.
7 Hendrickson, Edwin
11 <120> TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF
DECHLORINATING

12 BACTERIA
16 <130> FILE REFERENCE: BC1002 US NA
20 <140> CURRENT APPLICATION NUMBER: US 09/548,998A
C--> 22 <141> CURRENT FILING DATE: 2001-09-10
26 <150> PRIOR APPLICATION NUMBER: 60/129,511
28 <151> PRIOR FILING DATE: 1999-04-15
32 <160> NUMBER OF SEQ ID NOS: 60
36 <170> SOFTWARE: Microsoft Office 97
40 <210> SEQ ID NO: 1

42 <211> LENGTH: 24
44 <212> TYPE: DNA
46 <213> ORGANISM: Dehalococcoides ethenogenes
50 <400> SEQUENCE: 1

51 attttctagc gagactgccc cgcg

24

54 <210> SEQ ID NO: 2

56 <211> LENGTH: 1377

58 <212> TYPE: DNA

60 <213> ORGANISM: Dehalococcoides ethenogenes

64 <400> SEQUENCE: 2

65	gatgaacgct agcggcgtgc cttatgcatg caagtcgaac ggtcttaagc aattaagata	60
67	gtggcaaacg ggtgagtaac gcgtaagtaa cctacctcta agtgggggat agcttcggga	120
69	aactgaaggt aataccgcat gtgatgggct gacataagtc ggttcattaa agccgcaagg	180
71	tgcttggtga ggggcttgcg tccgattagc tagttggtgg ggtaatggcc taccaaggct	240
73	tcgatcggtg gctgggtctga gaggatgatc agccacactg ggactgagac acggcccaga	300
75	ctcctacggg aggcagcagc aaggaatctt gggcaatggg cgaaagcctg acccagcaac	360
77	gccgcgtgag ggatgaaggc ttctcggttg taaacctctt ttcacaggga agaataatga	420
79	cgggtacctgt ggaataagct tcggctaact acgtgccagc agccgcggtg atacgtagga	480
81	agcaagcgtt atccggattt attgggcgta aagtgagcgt aggtgggtctt tcaagttgga	540
83	tgtgaaattt cccggcttaa ccgggacgtg tcattcaata ctggtggact agagtacagc	600
85	aggagaaaac ggaattcccg gtgtagtggg aaaatgcgta gatatacgga ggaacaccag	660
87	aggcgaaggc ggttttctag gttgtcactg acactgaggc tcgaaagcgt ggggagcgaa	720
89	cagaattaga tactctggta gtccacgcct taaactatgg acactaggta tagggagtat	780
91	cgaccctctc tgtgccgaag ctaacgctyt aagtgtcccg cctggggagt acggtcgcaa	840
93	ggctaaaact caaaggaatt gacgggggccc cttacaagca gcggagcgtg tggtttaatt	900
95	cgatgctaca cgaagaacct taccaagatt tgacatgcat gaagtagtga accgaaaggg	960
97	aaacgacctg ttaagtcagg agtttgacac ggtgctgcat ggctgtcgtc agctcgtgcc	1020
99	gtgagggtgt tggttaagtc ctgcaacgag cgcaaccctt gttgctagtt aaattttcta	1080
101	gcgagactgc cccgcgaaac ggggaggaag gtgggggatga cgtcaagtca gcattggcctt	1140
103	tatatcttgg gctacacaca cgctacaatg gacagaacaa taggttgcaa cagtgtgaac	1200
105	tggagctaat ccccaaagct gtctctcagtt cggattgcag gctgaaaccc gcctgcatga	1260
107	agttggagtt gctagtaacc gcataatcagc aaggtgcggt gaatacgttc tcgggccttg	1320
109	tacacaccgc ccgtcacgtc atgaaagccg gtaacacttg aagtcgatgt gcccaacc	1377

112 <210> SEQ ID NO: 3

114 <211> LENGTH: 1378

ENTERED*See page 5*

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Output Set: N:\CRF3\09242001\I548998A.raw

116 <212> TYPE: DNA

118 <213> ORGANISM: Dehalococcoides ethenogenes

122 <400> SEQUENCE: 3

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125	gtggcaaacg	ggtgagtaac	gcgtaagtaa	cctacctcta	agtgggggat	agcttcggga	120
127	aactgaaggt	aataccgcat	gtggtgggccc	gacataagtt	ggttcactaa	agccgtaagg	180
129	tgcttggtga	ggggcttgcg	tccgattagc	tagttggtgg	ggtaacggcc	taccaaggct	240
131	tcgatcggta	gcttggtctg	agaggatgat	cagccacact	gggactgaga	cacggcccag	300
133	actcctacgg	gaggcagcag	caaggaatct	tgggcaatgg	gcgaaagcct	gacccagcaa	360
135	cgccgcgtga	gggatgaagg	ctctcggggtt	gtaaacctct	tttcacaggg	agaataatg	420
137	acggtacctg	tgggaataagc	ttcgggctaac	tacgtgccag	cagccgcggt	aatacgtagg	480
139	aagcaagcgt	tatccggatt	tattgggctg	aaagtgagcg	taggtggtct	ttcaagttgg	540
141	atgtgaaatt	tcccggctta	accgggacgt	gtcattcaat	actggttgac	tagagtacag	600
143	caggagaaaa	cggaattccc	ggtgtagtgg	taaaatgcgt	agatatcggg	aggaacacca	660
145	gaggcgaagg	cggttttcta	ggttgctact	gacactgagg	ctcgaaagcg	tggggagcga	720
147	acagaattag	atactctggt	agtccacgcc	ttaaactatg	gacactaagt	atagggagta	780
149	tcgaccctct	ctgtgccgaa	gctaacgctt	taagtgtccc	gcctggggag	tacggtcgca	840
151	aggctaaaac	tcaaaggaat	tgacgggggc	ccgcacaagc	agcggagcgt	gtggtttaat	900
153	tcgatgctac	acgaagaacc	ttaccaagat	ttgacatgca	tgaagtagtg	aaccgaaagg	960
155	gaaacgacct	gttaagtcag	gagtttgcac	aggtgctgca	tggctgtcgt	cagctcgtgc	1020
157	cgtgaggtgt	ttggttaagt	cctgcaacga	gcgcaaccct	tgttgctagt	taaattttct	1080
159	agcgagactg	ccccgcgaaa	cggggaggaa	ggtgggggatg	acgtcaagtc	agcatggcct	1140
161	ttatatcttg	ggctacacac	acgctacaat	ggacagaaca	ataggttgca	acagtgtgaa	1200
163	ctggagctaa	tcctcaaagc	tgctctcagt	tcggattgca	ggctgaaacc	cgcttgcag	1260
165	aagttggagt	tgctagtaac	cgcataatcag	caaggtgcgg	tgaatacgtt	ctcgggcctt	1320
167	gtacacaccg	cccgtcacgt	catgaaagcc	ggtaacactt	gaagtcgatg	tgccaacc	1378

170 <210> SEQ ID NO: 4

172 <211> LENGTH: 1377

174 <212> TYPE: DNA

176 <213> ORGANISM: Dehalococcoides ethenogenes

180 <400> SEQUENCE: 4

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183	gtggcgaacg	ggtgagtaac	gcgtaagtaa	cctacctcta	agtgggggat	agcttcggga	120
185	aactgaaggt	aataccgcat	gtggtgggccc	gacataatgtt	ggttcactaa	agccgtaagg	180
187	cgcttggtga	ggggcttgcg	tccgattagc	tagttggtgg	ggtaatggcc	taccaaggct	240
189	tcgatcggta	gctggtctga	gaggatgatc	agccacactg	ggactgagac	acggcccaga	300
191	ctcctacggg	aggcagcagc	aaggaatctt	gggcaatggg	cgaaagcctg	acccagcaac	360
193	gccgcgtgag	ggatgaaggc	tttcggggtt	taaacctctt	ttcataggga	agaataatga	420
195	cggtagctgt	ggaataagct	tcgggctaact	acgtgccagc	agccgcggta	atacgtagga	480
197	agcaagcgtt	atccggattt	attgggctga	aagtgagcgt	aggtggtctt	tcaagttgga	540
199	tgtgaaattt	cccggcttaa	ccgggacgag	tcattcaata	ctggttgact	agagtacagc	600
201	aggagaaaac	ggaattcccg	gtgtagtggt	aaaatgcgta	gatatcggga	ggaacaccag	660
203	aggcgaaggc	ggtttttctag	gttgctactg	acactgaggc	tcgaaagcgt	ggggagcga	720
205	cagaattaga	tactctggta	gtccacgcct	taaactatgg	acactaggta	tagggagtat	780
207	cgaccctctc	tgtgccgaag	ctaacgcttt	aagtgtcccg	cctggggagt	acggtcgcaa	840
209	ggctaaaact	caaaggaatt	gacggggggc	cgcacaagca	gcggagcgtg	tggtttaatt	900
211	cgatgctaca	cgaagaacct	taccaagatt	tgacatgcat	gtagtagtga	actgaaaggg	960
213	gaacgacctg	ttaagtcagg	aacttgcaca	ggtgctgcat	ggctgtcgtc	agctcgtgcc	1020
215	gtgaggtggt	tggttaagtc	ctgcaacgag	cgcaaccctt	ggtgctagtt	aaattttcta	1080

RAW SEQUENCE LISTING

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Output Set: N:\CRF3\09242001\I548998A.raw

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217 gcgagactgc cccgcgaaac ggggaggaag gtgggggatga cgtcaagtca gcatggcctt 1140
219 tatactcttg gctacacaca cgctacaatg gacagaacaa taggttgcaa cagtgtgaac 1200
221 tggagctaat ccccaaagct gtcctcagtt cggattgcag gctgaaaccc gcctgcatga 1260
223 agttggagtt gctagtaacc gcataatcagc atggtgcggt gaatacgttc tcgggccttg 1320
225 tacacaccgc ccgtcacgtc atgaaagccg gtaacacttg aagtcgatgt gcccaacc 1377
228 <210> SEQ ID NO: 5
230 <211> LENGTH: 1377
232 <212> TYPE: DNA
234 <213> ORGANISM: Dehalococcoides ethenogenes
238 <400> SEQUENCE: 5
239 gatgaacgct agcggcgtgc cttatgcatg caagtcgaac ggtcttaagc aattaagata 60
241 gtggcgaacg ggtgagtaac gcgtaagtaa cctacctcta agtgggggat agcttcggga 120
243 aactgaaggt aataccgcat gtggtgggccc gacatatgtt ggttcactaa agccgtaagg 180
245 cgcttggtga ggggcttgccg tccgattagc tagttggtgg ggtaacggcc taccaaggct 240
247 tcgatcggta gctggtctga gaggatgatc agccacactg ggactgagac acggcccaga 300
249 ctctacggg aggagcagc aaggaatctt gggcaatggg cgaaagcctg acccagcaac 360
251 gccgcgtgag ggatgaaggc ttctcggttg taaacctctt ttcacaggga agaataatga 420
253 cggtagctgt ggaataagct tcggctaact acgtgccagc agccgcggta atacgtagga 480
255 agcaagcgtt atccggattt attgggcgta aagtgcgctg aggtggtctt tcaagttgga 540
257 tgtgaaattt cccggcttaa ccgggacgag tcattcaata ctggttgact agagtacagc 600
259 aggagaaaac ggaattcccg gtgtagtggg aaaatgcgta gatatcggga ggaacaccag 660
261 aggcgaaggc ggttttctag gttgtcactg aactgagggc tcgaaagcgt ggggagcgaa 720
263 cagaattaga tactctggta gtccacgcct taaactatgg aactaggta tagggagtat 780
265 cgacctctc tgtgccgaag ctaacgcttt aagtgtcccg cctggggagt acggtcgcaa 840
267 ggctaaaact caaaggaatt gacgggggccc cgcacaagca gcggagcgtg tggtttaatt 900
269 cgatgctaca cgaagaacct taccaagatt tgacatgcat gtagtagtga actgaaaggg 960
271 gaacgacctg ttaagtcagg aacttgcaac ggtgctgcat ggctgtcgtc agctcgtgcc 1020
273 gtgaggtgtt tggtttaagtc ctgcaacgag cgcaaccctt gttgctagtt aaattttcta 1080
275 gcgagactgc cccgcgaaac ggggaggaag gtgggggatga cgtcaagtca gcatggcctt 1140
277 tatactcttg gctacacaca cgctacaatg gacagaacaa taggttgcaa cagtgtgaac 1200
279 tggagctaat ccccaaagct gtcctcagtt cggattgcag gctgaaaccc gcctgcatga 1260
281 agttggagtt gctagtaacc gcataatcagc atggtgcggt gaatacgttc tcgggccttg 1320
283 tacacaccgc ccgtcacgtc atgaaagccg gtaacacttg aagtcgatgt gcccaacc 1377
286 <210> SEQ ID NO: 6
288 <211> LENGTH: 1377
290 <212> TYPE: DNA
292 <213> ORGANISM: Dehalococcoides ethenogenes
296 <400> SEQUENCE: 6
297 gatgaacgct agcggcgtgc cttatgcatg caagtcgaac ggtcttaagc aattaagata 60
299 gtggcaaacg ggtgagtaac gcgtaagtaa cctacctcta agtgggggat agcttcggga 120
301 aactgaaggt aataccgcat gtggtgggccc gacataagtt ggttcactaa agccgtaagg 180
303 tgcttggtga ggggcttgccg tccgattagc tagttggtgg ggtaacggcc taccaaggct 240
305 tcgatcggta gctggtctga gaggatgatc agccacactg ggactgagac acggcccaga 300
307 ctctacggg aggagcagc aaggaatctt gggcaatggg cgaaagcctg acccagcaac 360
309 gccgcgtgag ggatgaaggc tctcggttg taaacctctt ttcacaggga agaataatga 420
311 cggtagctgt ggaataagct tcggctaact acgtgccagc agccgcggta atacgtagga 480
313 agcaagcgtt atccggattt attgggcgta aagtgcgctg aggtggtctt tcaagttgga 540
315 tgtgaaattt cccggcttaa ccgggacgtg tcattcaata ctggttgact agagtacagc 600
317 aggagaaaac ggaattcccg gtgtagtggg aaaatgcgta gatatcggga ggaacaccag 660

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/548,998A

DATE: 09/24/2001

TIME: 16:35:51

Input Set : A:\BC1002 US NA Revised Seq Listing.txt

Output Set: N:\CRF3\09242001\I548998A.raw

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321 cagaattaga tactctggta gtccacgcct taaactatgg acactaggta tagggagtat 780
323 cgaccctctc tgtgccgaag ctaacgcttt aagtgtccc cctggggagt acggtcgcaa 840
325 ggctaaaact caaaggaatt gacggggggc cgcacaagca gcggagcgtg tggtttaatt 900
327 cgatgctaca cgaagaacct taccaagatt tgacatgcat gaagtagtga accgaaaggg 960
329 aaacgacctg ttaagtcagg agtttgcaca ggtgctgcat ggctgtcgtc agctcgtgcc 1020
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333 gcgagactgc cccgcgaaac ggggaggaag gtggggatga cgtcaagtca gcatggcctt 1140
335 tatactcttg gctacacaca cgctacaatg gacagaacaa taggttgcaa cagtgtgaac 1200
337 tggagctaat cctcaaagct gtcctcagtt cggattgcag gctgaaaccc gcctgcatga 1260
339 agttggagtt gctagtaacc gcatatcagc aaggtgcggt gaatacgttc tcgggccttg 1320
341 tacacaccgc ccgtcacgtc atgaaagccg gtaacacttg aagtcgatgt gcccaacc 1377
344 <210> SEQ ID NO: 7
346 <211> LENGTH: 1443
348 <212> TYPE: DNA
350 <213> ORGANISM: Dehalococcoides ethenogenes
354 <220> FEATURE:
356 <221> NAME/KEY: misc_feature
358 <222> LOCATION: (1353)..(1353)
360 <223> OTHER INFORMATION: N = A or G or C or T/U, unknown or other (any)
364 <400> SEQUENCE: 7
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367 gtggcaaacg ggtgagtaac gcgtaagtaa cctacctcta agtgggggat agcttcggga 120
369 aactgaaggc aataccgcat gtgatgggct gacataagtc ggttcattaa agccgcaagg 180
371 tgcttggtga ggggcttgcg tccgattagc tagttggtgg ggtaatggtc taccaaggct 240
373 tcgatcggtg gctggtctga gaggatgac agccacactg ggactgagac acgggccaga 300
375 ctctacggg aggcagcagc aaggaatctt gggcaatggg cgaaagcctg acccagcaac 360
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379 cggtagctgt ggaataagct tcggctaact acgtgccagc agccgcggta atacgtaggg 480
381 aagcaagcgt tatccggatt tattgggcgt aaagtgcgct taggtggtct ttcaagttgg 540
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385 caggagaaaa cggaattccc ggtgtagtgg taaaatgcgt agatatcggg aggaacacca 660
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399 gtgaggtggt gggttaagtc ctgcaacgag cgcaaccctg ttgctagtta aattttctag 1080
401 cgagactagc gagactgccc cgcgaaacgg ggaggaaggc ggggatgacg tcaagtcagc 1140
403 atggccttta tatcttgggc tacacacacg ctacaatgga cagaacaata ggttgcaaca 1200
405 gtgtgaactg gagctaattc ccaaagctgt cctcagttcg gattgcaggc tgaaaccgcg 1260
407 ctgcatgaag ttggagttgc tagtaaccgc atatcagcaa ggtgcggtga atacgttctc 1320
W--> 409 gggccttgta cacaccgccc gtcacgtcat ganagccggt aacacttgaa gtcgatgtgc 1380
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413 gta
416 <210> SEQ ID NO: 8
418 <211> LENGTH: 47
420 <212> TYPE: DNA

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/548,998A

DATE: 09/24/2001
TIME: 16:35:51

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Output Set: N:\CRF3\09242001\I548998A.raw

422 <213> ORGANISM: Artificial Sequence
426 <220> FEATURE:
428 <223> OTHER INFORMATION: Consensus sequence derived from DHE-PL, DHE-STF, DHE-DAB,
DHE-PIN
429 and DHE-DLL at bases E180-E226.
431 <220> FEATURE:
433 <221> NAME/KEY: misc_feature
435 <222> LOCATION: (5)..(5)
437 <223> OTHER INFORMATION: R = A or G
441 <220> FEATURE:
443 <221> NAME/KEY: misc_feature
445 <222> LOCATION: (11)..(11)
447 <223> OTHER INFORMATION: Y = C or T
451 <220> FEATURE:
453 <221> NAME/KEY: misc_feature
455 <222> LOCATION: (18)..(18)
457 <223> OTHER INFORMATION: W = A or T
461 <220> FEATURE:
463 <221> NAME/KEY: misc_feature
465 <222> LOCATION: (21)..(21)
467 <223> OTHER INFORMATION: Y = C or T
471 <220> FEATURE:
473 <221> NAME/KEY: misc_feature
475 <222> LOCATION: (28)..(28)
477 <223> OTHER INFORMATION: Y = C or T
481 <220> FEATURE:
483 <221> NAME/KEY: misc_feature
485 <222> LOCATION: (37)..(37)
487 <223> OTHER INFORMATION: Y = C or T
491 <220> FEATURE:
493 <221> NAME/KEY: misc_feature
495 <222> LOCATION: (42)..(42)
497 <223> OTHER INFORMATION: Y = C or T
501 <400> SEQUENCE: 8
502 tgtgrtgggc ygacatawgt yggttcayta aagccgyaag gygcttg 47
505 <210> SEQ ID NO: 9
507 <211> LENGTH: 20
509 <212> TYPE: DNA
511 <213> ORGANISM: Dehalococcoides ethenogenes
515 <400> SEQUENCE: 9 20
516 aagtcgaacg gtcttaagca
519 <210> SEQ ID NO: 10
521 <211> LENGTH: 20
523 <212> TYPE: DNA
525 <213> ORGANISM: Dehalococcoides ethenogenes
529 <400> SEQUENCE: 10 20
530 cgtcattatt cttccctgtg
533 <210> SEQ ID NO: 11
535 <211> LENGTH: 21
537 <212> TYPE: DNA

Use of n and / or Xaa has been detected in the
Sequence Listing. Review the Sequence Listing
to ensure a corresponding explanation is present
in the <220> to <223> fields of each sequence
using n or Xaa.

VERIFICATION SUMMARY

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DATE: 09/24/2001

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L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

STATISTICS SUMMARY

PATENT APPLICATION: US/09/548,998A

DATE: 09/24/2001

TIME: 16:35:52

Input Set : A:\BC1002 US NA Revised Seq Listing.txt
Output Set: N:\CRF3\09242001\I548998A.raw

Application Serial Number: US/09/548,998A
Alpha or Numeric: Numeric
Application Class:
Application File Date: 09-10-2001
Art Unit: OIPE
Software Application: Other
Total Number of Sequences: 60
Total Nucleotides: 11396
Total Amino Acids: 0
Number of Errors: 0
Number of Warnings: 1
Number of Corrections: 1

MESSAGE SUMMARY

271 C: 1 (Current Filing Date differs)
341 W: 1 ((46) "n" or "Xaa" used)

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/548,998A

DATE: 09/20/2001
 TIME: 10:42:44

Input Set : A:\BC1002 US NA Revised Seq Listing.txt
 Output Set: N:\CRF3\09202001\I548998A.raw

5 <110> APPLICANT: Ebersole, Richard C.
 7 Hendrickson, Edwin
 11 <120> TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF
 DECHLORINATING
 12 BACTERIA
 16 <130> FILE REFERENCE: BC1002 US NA
 20 <140> CURRENT APPLICATION NUMBER: US 09/548,998A
 C--> 22 <141> CURRENT FILING DATE: 2001-09-10
 26 <150> PRIOR APPLICATION NUMBER: 60/129,511
 28 <151> PRIOR FILING DATE: 1999-04-15
 32 <160> NUMBER OF SEQ ID NOS: 60
 36 <170> SOFTWARE: Microsoft Office 97

**Does Not Comply
 Corrected Diskette Needed**

ERRORED SEQUENCES

1324 <210> SEQ ID NO: 60
 1326 <211> LENGTH: 31
 1328 <212> TYPE: DNA
 1330 <213> ORGANISM: Dehalococcoides ethenogenes
 1334 <400> SEQUENCE: 60
 1335 atcccccaact tagaggtagg ttacttacgc g
 E--> 1338 23

31

*Remove miscellaneous material
 at end of file.*

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/548,998A

DATE: 09/20/2001
TIME: 10:42:45

Input Set : A:\BC1002 US NA Revised Seq Listing.txt
Output Set: N:\CRF3\09202001\I548998A.raw

L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:1338 M:254 E: No. of Bases conflict, LENGTH:Input:23 Counted:31 SEQ:60